

Electrical Specifications																							
Frequency range (MHz)		690-960 x 2									Lower 1690-2690 × 2												
		690-806			824-894			880-960			1690-1990			1920-2200			2200-2490			2490-2690			
Polarization		±45°																					
Electrical downtilt (°)		0 – 10									0 – 10												
Tilt (°)		0	5	10	0	5	10	0	5	10	0	5	10	0	5	10	0	5	10	0	5	10	
Gain (dBi)		14.4	14.5	14.3	14.6	14.7	14.4	14.7	14.9	14.5	15.0	15.1	15.0	15.4	15.5	15.3	15.7	15.8	15.6	15.8	15.9	15.6	
1 <sup>st</sup> USLS (Min.) (dB)		17	17	16	17	16	16	17	16	16	17	16	16	17	16	16	17	16	16	16	16	15	
Horizontal 3dB beamwidth (°)		69			65			60			67			65			63			60			
Vertical 3dB beamwidth (°)		13.8			12.7			11.2			12.0			11.8			10.4			9.5			
Front to back, co-polar (Typ.) (dB)		>25									>28												
Cross polar ratio (Typ.) (dB)	0°	>20									>18												
	±60°	>8									>6												
VSWR   RL (dB)		<1.5   >14																					
Isolation between ports (dB)		≥25																					
Max. power per input (W)		500 (at 50° C environmental temperature)									250 (at 50° C environmental temperature)												
Intermodulation IM3 (dBc)		≤ -153 (2×20 W carrier)																					
Impedance(Ω)		50																					
Lightning protection		DC Ground																					

Electrical Specifications													
Frequency range (MHz)		Upper 1690-2690 x 2											
		1690-1990			1920-2200			2200-2490			2490-2690		
Polarization		±45°											
Electrical downtilt (°)		0 – 10											
Tilt (°)		0	5	10	0	5	10	0	5	10	0	5	10
Gain (dBi)		14.7	14.8	14.7	15.1	15.2	15.0	15.4	15.5	15.3	15.5	15.6	15.3
1 <sup>st</sup> USLS (Min.) (dB)		17	16	16	17	16	16	17	16	16	17	16	15
Horizontal 3dB beamwidth (°)		67			65			63			60		
Vertical 3dB beamwidth (°)		12.0			11.8			10.4			9.5		
Front to back, co-polar (Typ.) (dB)		>28											
Cross polar ratio (Typ.) (dB)	0°	>18											
	±60°	>6											
VSWR   RL (dB)		<1.5   >14											
Isolation between ports (dB)		≥28											
Max. power per input (W)		250 (at 50° C environmental temperature)											
Intermodulation IM3 (dBc)		≤ -153 (2× 20 W carrier)											
Impedance(Ω)		50											
Lightning protection		DC Grounded											

**6XD-690-960/690-960/1690-2690/1690-2690/1690-2690/1690-2690-65/65/65/65/65/65-15i/15i/16i/16i/16i/16i-110/110/110/110/110/110**  
**Model: MI6012**



Mechanical Specifications		
Connector		12 x 4.3-10 Female
Connector position		Bottom
Dimensions H×W×D (in)   (mm)		82.7×19.7×6.2 2100×500×158
Weight (lb)   (kg)		72.7   33
Mechanical downtilt (°)		0-10
Mast diameter supported (in)   (mm)		2.0-4.5   50-115
Radome material / color		Fiberglass / Light grey
Operational temperature (°C)		-55~+65
Wind load (lbf)   (N)	Front	248.4   1105 (at 150 km/h)
	Side	91.0   405 (at 150 km/h)
	Rear	277.6   1235 (at 150 km/h)
Max. operational wind speed (mph)   (km/h)		93   150
Survival wind speed (mph)   (km/h)		124   200

RET Specifications								
Protocol	AISG 2.0/3GPP							
Voltage Range	10-36V DC							
Power Consumption	<1W Idle							
	<10W Tilting							
Hardware Interface	1	2	3	4	5	6	7	8
	DC	n/c	RS-485B	n/c	RS-485A	DC in/out	DC return	n/c
Connectors	8 pin connector, male, conform to AISG 2.0 8 pin connector, female, conform to AISG 2.0							
Adjustment Resolution	0.1 degree							

